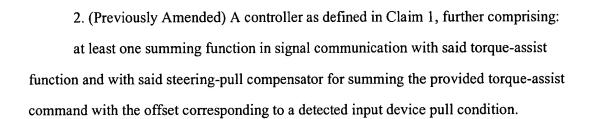
1. (Previously Amended) A controller for a vehicular system, the controller comprising:

a torque-assist function responsive to a signal indicative of an input device torque for providing a torque-assist command to a motor; and

a steering-pull compensator responsive to a signal indicative of a valid detection cycle for modifying said torque-assist command to the motor by an offset corresponding to a detected steering-pull condition.



- 3. (Previously Amended) A controller as defined in Claim 1, said steering-pull compensator comprising:
 - a filter responsive to the signal indicative of input device torque.
- 4. (Previously Amended) A controller as defined in Claim 1, said steering-pull compensator comprising:

a condition processing block for determining if the vehicle is being driven in a substantially straight path.

5. (Previously Amended) A controller as defined in Claim 1, said steering-pull compensator comprising:

an enable block for validating the detected steering-pull condition.

6. (Previously Amended) A controller as defined in Claim 5, said steering-pull compensator comprising:



an enabling switch for receiving a binary control signal from said enable block.

7. (Currently Amended) <u>A controller for a vehicular system, the controller comprising:</u>

a torque-assist function responsive to a signal indicative of an input device torque for providing a torque-assist command to a motor; and

a steering-pull compensator responsive to a signal indicative of a valid detection cycle for modifying said torque-assist command to the motor by an offset corresponding to a detected steering-pull compensator comprising:

a function block for preventing an offset correction corresponding to a detected steering-pull condition from exceeding a desired value.

8. (Previously Amended) A controller as defined in Claim 6, said steering-pull compensator further comprising:

a delay unit for delaying the offset correction until the enabling switch transitions off-to-on.

9. (Previously Amended) A controller as defined in Claim 8, said steering-pull compensator further comprising:

a summing function for adding the delayed offset correction to a previous offset value.

10. (Previously Amended) A controller as defined in Claim 1, said steering-pull compensator comprising:

a memory switch for receiving its own output signal at its primary input terminal.



- 11. (Previously Amended) A controller as defined in Claim 2, said steering-pull compensator comprising:
- a function block for providing a signal to a non-inverting input of the summing function.



12. (Previously Amended) A method for controlling a vehicular system, the method comprising:

receiving a signal indicative of a torque applied to an input device;

providing a torque-assist command to a motor in response to the received torque signal;

detecting an enabling signal;

quantifying a steering-pull condition in response to the received and detected signals; and

modifying the torque-assist command to the motor by an offset corresponding to the quantified steering-pull condition.

13. (Currently Amended) A method for controlling a vehicular system, the method comprising:

receiving a signal indicative of a torque applied to an input device;

providing a torque-assist command to a motor in response to the received torque signal;

detecting an enabling signal;

quantifying a steering-pull condition in response to the received and detected signals;

modifying the torque-assist command to the motor by an offset corresponding to the quantified steering-pull condition; A method as defined in Claim 12, further comprising:

monitoring a vehicle ignition signal; recognizing an off-to-on transition of the monitored ignition signal;

disabling the enabling signal in response to the recognized transition;

determining whether at least one of the duration of the monitored ignition signal exceeds a threshold duration value and the distance traveled by the vehicle exceeds a threshold distance value; and

enabling the enabling signal in correspondence with said determining when the duration exceeds the threshold.



14. (Original) A method as defined in Claim 13, further comprising:
recognizing a cycle as an off-to-on transition of the monitored ignition signal
followed by an on-to-off transition of the monitored ignition signal; and

storing a steering-pull compensation value corresponding to the quantified condition into a memory location upon detecting of an enabled enabling signal for a recognized cycle.

15. (Original) A method as defined in Claim 14, further comprising:
adding the stored steering-pull compensation value to the provided torque-assist
command at the beginning of a cycle in accordance with the steering-pull compensation
value stored in a previous cycle.

16. (Original) A method as defined in Claim 14, further comprising:
adding the stored steering-pull compensation value to the provided torque-assist
command at the beginning of a cycle in accordance with the steering-pull compensation
values stored in a plurality of previous cycles.

17. (Original) A method as defined in Claim 14, further comprising:
retrieving at least one steering-pull compensation value stored in a previous cycle
for analysis during vehicle service.

18. (Original) A method as defined in Claim 14, further comprising:
writing a modified steering-pull compensation value corresponding to an adjusted vehicular mechanical specification into a memory location following corrective vehicle service.



19. (Original) A method as defined in Claim 14, further comprising: writing a zero steering-pull compensation value into a memory location following vehicle service.

20. (Previously Amended) A controller for a vehicular system, the controller comprising:

means for receiving a signal indicative of an input device torque;

means for providing a torque-assist command to a motor responsive to said receiving means;

means for detecting an enabling signal; and

means for modifying said torque-assist command to the motor by an offset corresponding to a detected input device pull condition responsive to said detecting means.

- 21. (Original) A method as defined in Claim 13 wherein the threshold duration value is about five minutes.
- 22. (Original) A method as defined in Claim 13 wherein the threshold distance value is about three miles.

23. (Previously Added) A vehicular system comprising: an input device;

a controller in signal communication with said input device; a motor in signal communication with said controller; said controller comprising:

a torque-assist function responsive to a signal indicative of an input device torque for providing a torque-assist command to said motor; and

a steering-pull compensator responsive to a signal indicative of a valid detection cycle for modifying said torque-assist command to said motor by an offset corresponding to a detected steering-pull condition.

24. (Previously Added) A vehicular system as defined in Claim 23, said controller further comprising:

at least one summing function in signal communication with said torque-assist function and with said steering-pull compensator for summing the provided torque-assist command with the offset corresponding to a detected input device pull condition.

- 25. (Previously Added) A vehicular system as defined in 23, said steering-pull compensator comprising:
 - a filter responsive to the signal indicative of input device torque.
- 26. (Previously Added) A vehicular system as defined in Claim 23, said steeringpull compensator comprising:
- a condition processing block for determining if the vehicle is being driven in a substantially straight path.

27. (Previously Added) A vehicular system as defined in Claim 23, said steering-pull compensator comprising:

an enable block for validating the detected steering-pull condition.



28. (Previously Added) A vehicular system as defined in Claim 27, said steeringpull compensator comprising:

an enabling switch for receiving a binary control signal from said enable block.

29. (Currently Added) A vehicular system comprising:

an input device;

a controller in signal communication with said input device;

a motor in signal communication with said controller;

said controller comprising:

a torque-assist function responsive to a signal indicative of an input device torque for providing a torque-assist command to said motor; and

a steering-pull compensator responsive to a signal indicative of a valid detection cycle for modifying said torque-assist command to said motor by an offset corresponding to a detected steering-pull condition A vehicular system as defined in Claim 23, said steering-pull compensator comprising:

a function block for preventing an offset correction corresponding to a detected steering-pull condition from exceeding a desired value.

30. (Previously Added) A vehicular system as defined in Claim 28, said steeringpull compensator further comprising:

a delay unit for delaying the offset correction until the enabling switch transitions off-to-on.

31. (Previously Added) A vehicular system as defined in Claim 30, said steeringpull compensator further comprising:

a summing function for adding the delayed offset correction to a previous offset value.

32. (Previously Added) A vehicular system as defined in Claim 23, said steeringpull compensator comprising:

a memory switch for receiving its own output signal at its primary input terminal.

- 33. (Previously Added) A vehicular system as defined in Claim 24, said steering-pull compensator comprising:
- a function block for providing a signal to a non-inverting input of the summing function.
- 34. (Previously Added) A vehicular system as defined in Claim 23 wherein said motor is electric.